

FIG. 1

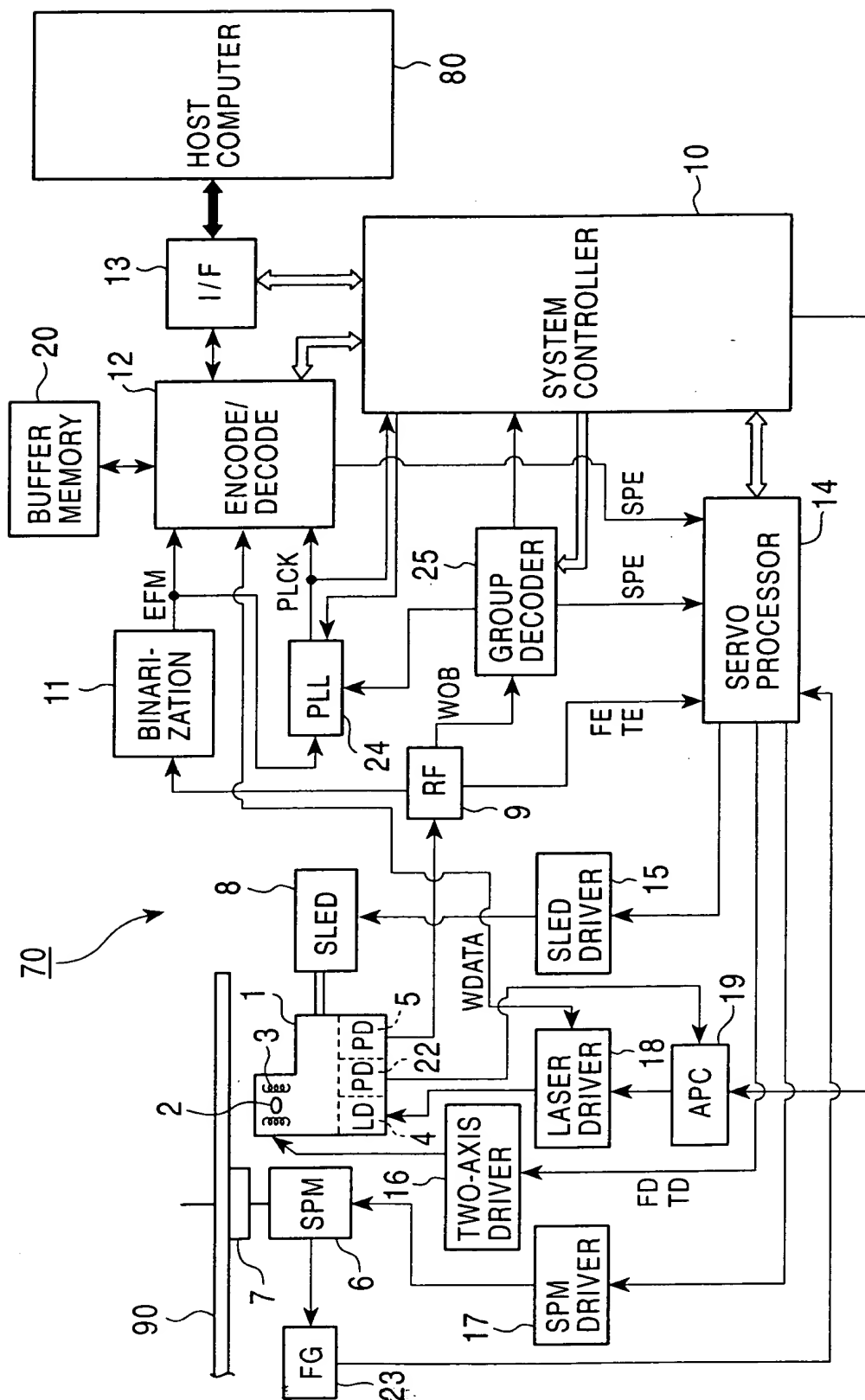


FIG. 2

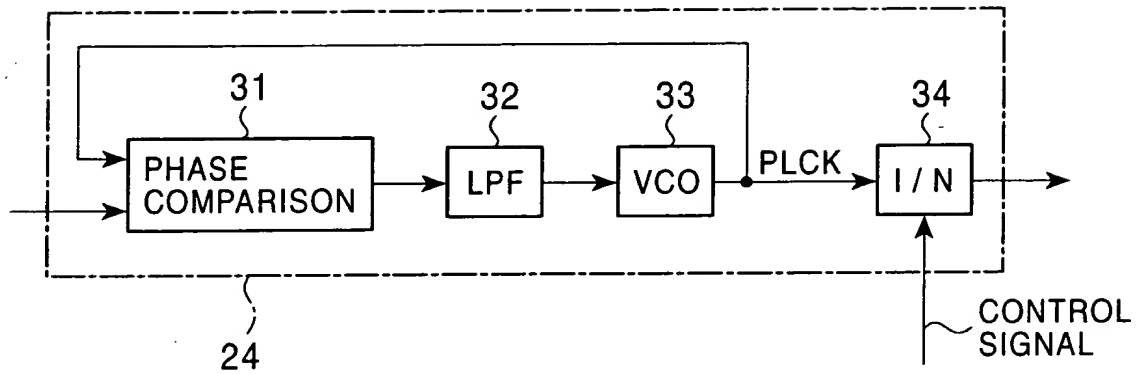


FIG. 3A

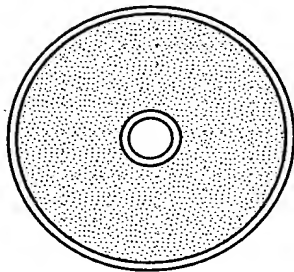


FIG. 3B

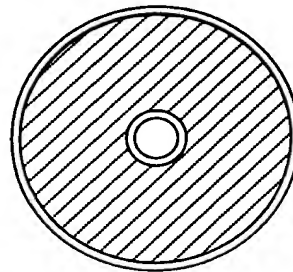


FIG. 4

	STANDARD DENSITY	HIGH DENSITY
USER DATA CAPACITY	650 Mbytes (120 mm) 195 Mbytes (80 mm)	1.30 Gbytes (120 mm) 0.40 Gbytes (80 mm)
PROGRAM AREA START POSITION (RADIUS)		
CENTER HOLE DIAMETER	50 mm	48 mm
DISK THICKNESS	15 mm	15 mm
TRACK PITCH	1.2 mm	1.2 mm
SCANNING SPEED	1.6 μ m	1.10 μ m
LASER WAVELENGTH	1.2~1.4 m/s	0.90 m/s
MODULATION METHOD	780 nm	780 nm
NA	0.45	0.55
ERROR-CORRECTION METHOD	EFM	EFM
CHANNEL BIT RATE	CIRC4	CIRC7
	4.3218 Mbps	4.3218 Mbps

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FIG. 5

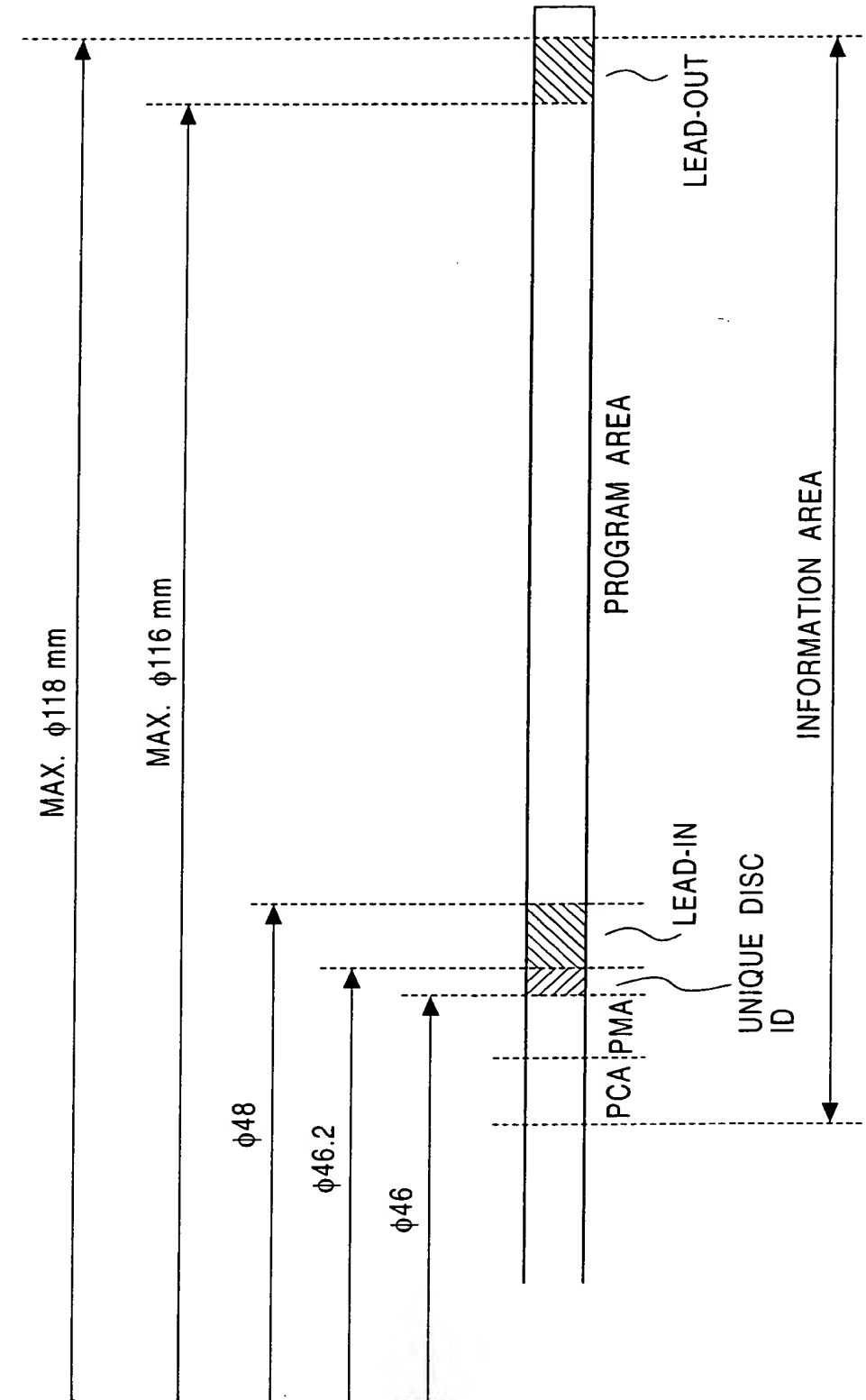


FIG. 6

COUNTRY CODE	2 BYTES
DISC MANUFACTURE DATE	1 BYTE
DISC MANUFACTURE NAME	2 BYTES
DISC ID	8 BYTES
WRITER MANUFACTURE NAME	1 BYTE
WRITER SERIAL NUMBER	2 BYTES
WRITER MODEL NAME	1 BYTE
RESERVE	⋮

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FIG. 7

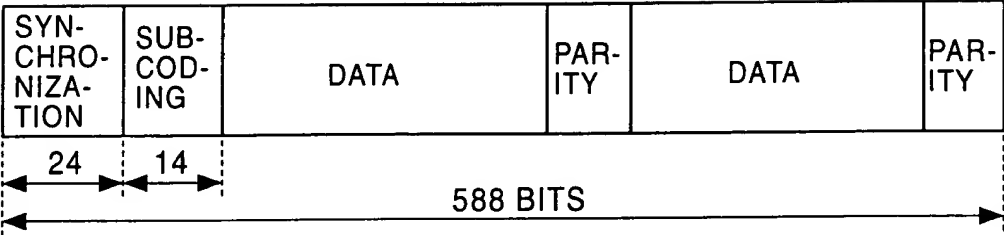


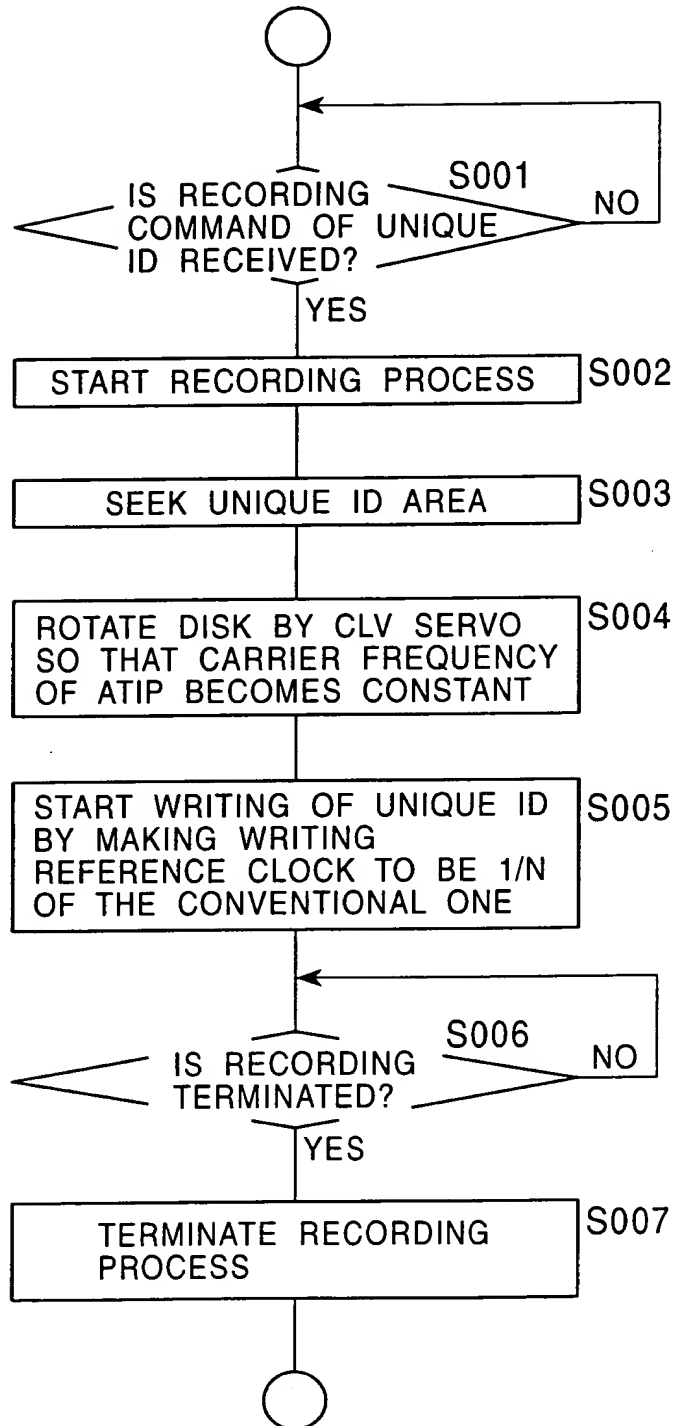
FIG. 8A

FRAME	SUBCODING FRAME
98n + 1	SYNCHRONIZATION PATTERN
98n + 2	SYNCRHONIZATION PATTERN
98n + 3	P1 Q1 R1 S1 T1 U1 V1 W1
98n + 4	P2 Q2 R2 S2 T2 U2 V2 W2
⋮	⋮
98n + 97	P95 Q95 R95 S95 T95 U95 V95 W95
98n + 98	P96 Q96 R96 S96 T96 U96 V96 W96
98(n+1) + 1	

FIG. 8B

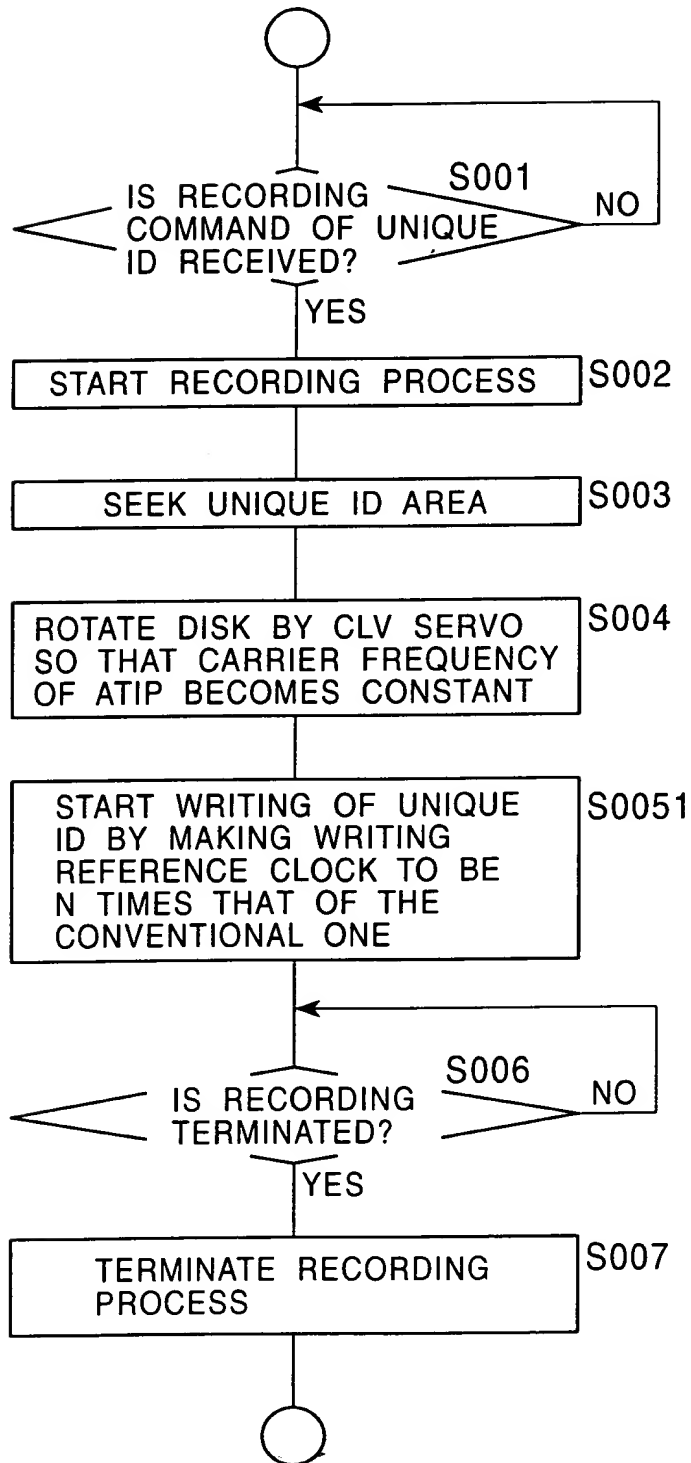
Q1~Q4 CONTROL	Q5~Q8 ADR	Q9 SUB-Q DATA	Q80	Q81~Q96 CRC
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FIG. 9



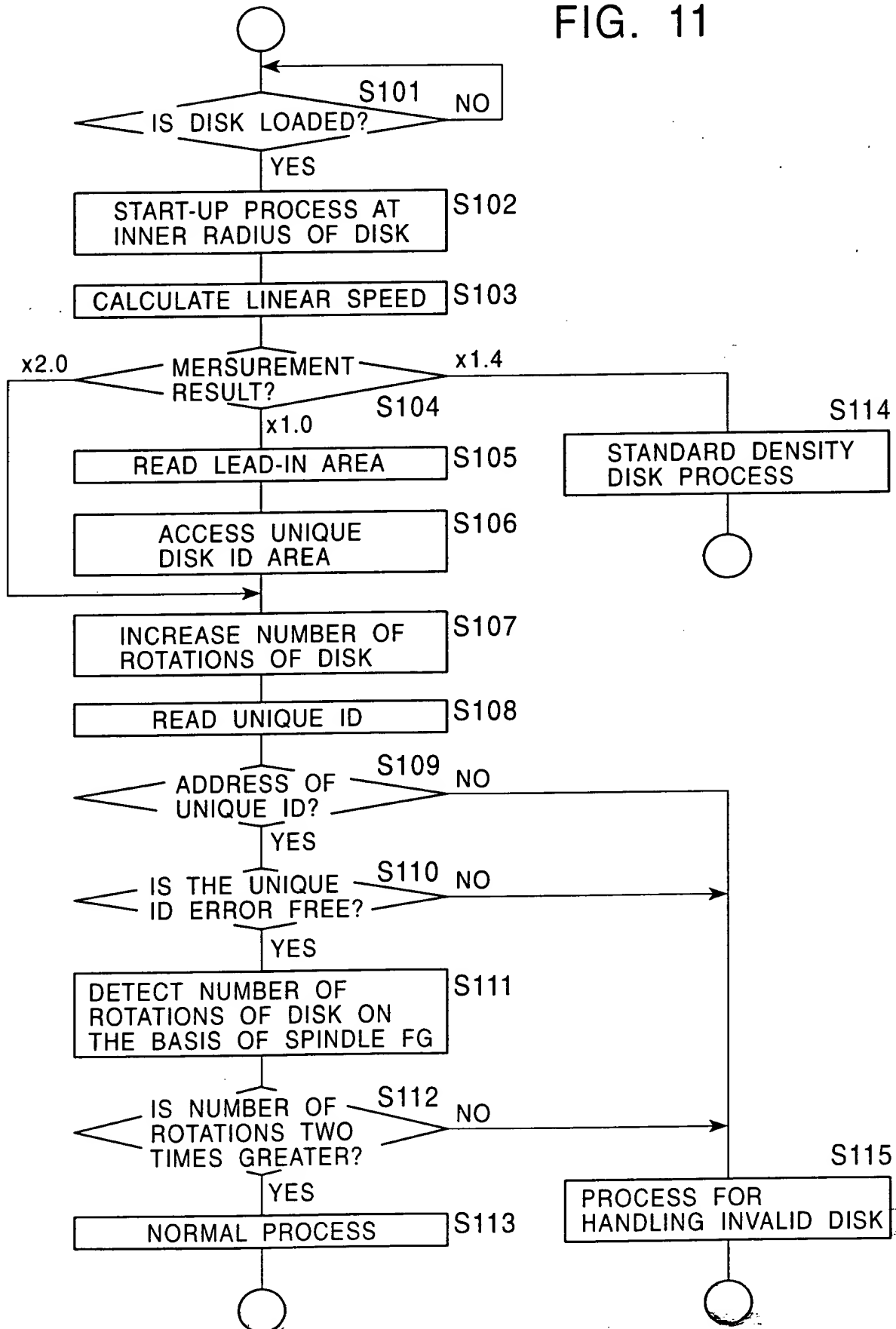
2004-07-10 09:00:00

FIG. 10



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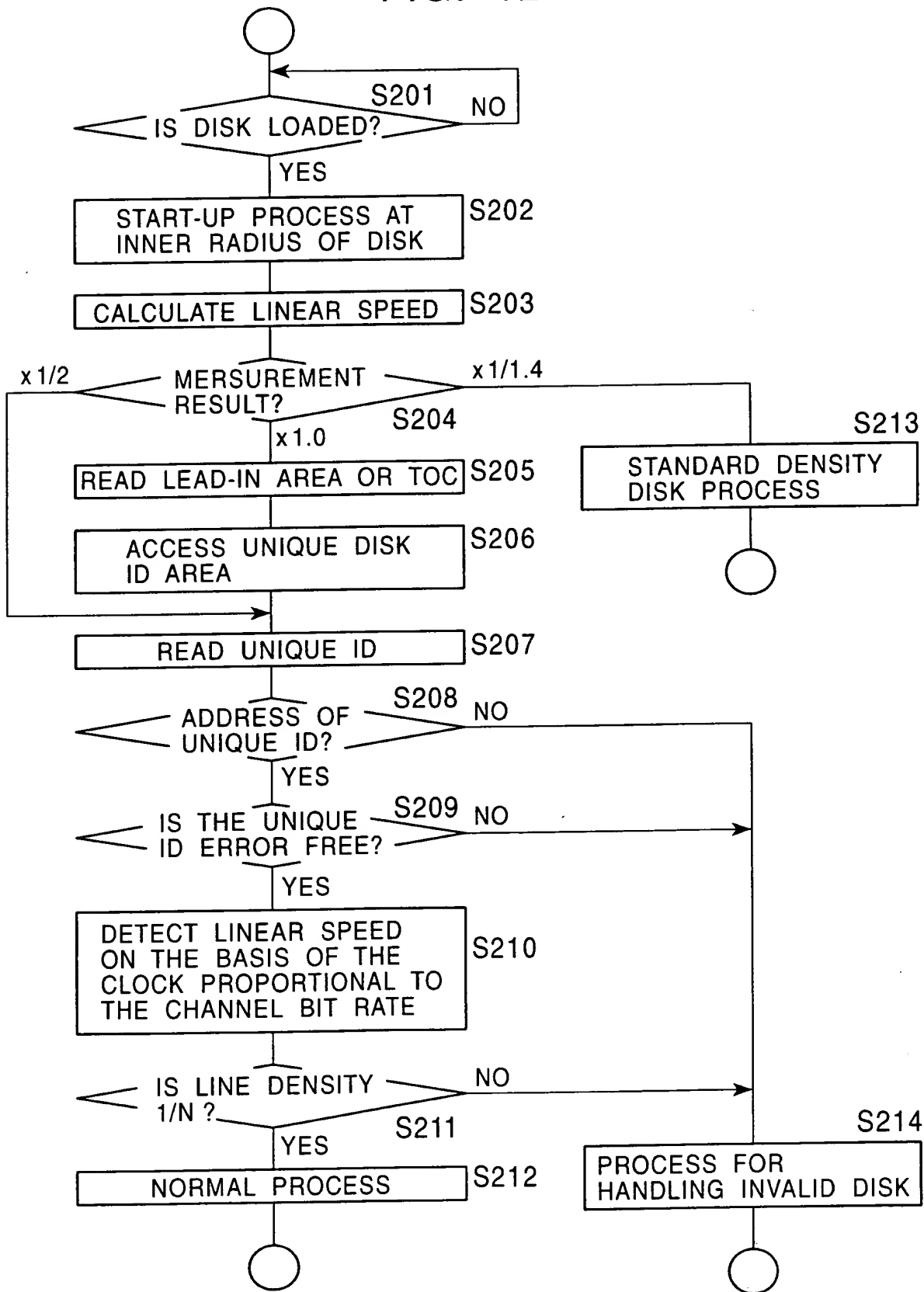
FIG. 11



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FIG. 12



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